

## **NIST 12.3.09 Smart Grid Privacy Subgroup meeting notes**

Notes by Rebecca Herold. Please send distribution list any necessary corrections or additions!

- **NIST Smart Grid Frameworks and NISTIR updates:**
  - Annabelle reported about the NISTIR comments and what we should plan to do for the next version of the NISTIR
  - 36 sets of comments on draft 1 of the NISTIR that was published in September.
  - Next draft due at end of January (pushed back from end of December)
  - NIST role and NISTIR role:
    - Identify standards and develop an interoperability framework.
    - Under that develop set of recommended requirements for the entire smart grid.
    - NIST does not have authority to mandate anything to the federal government or to the private sector.
    - NIST has regular meetings with FERC, NARUC etc., to see how what is proposed can be used.
    - NIST develops mandatory standards for the federal government, but not mandatory for entities outside the federal government.
    - NISTIR is looking at security and privacy, if states decide to use some or not, that is a problem.
    - However, it is outside the scope of NIST and NISTIR authority.
    - What goes in NISTIR, then, are recommendations. Cannot mandate.
    - Can, and should, point out issues (such as separation between federal and state) but cannot mandate or propose regulations or laws.
    - What we (NIST and the NISTIR) can do is identify issues and make recommendations
  - The NIST Smart Grid privacy subgroup framework document changes (the privacy section and cyber security section) must be in by tomorrow. ***[NOTE: Tanya sent a note following the meeting and indicated the due date for this was pushed back to Monday (12/7) or Tuesday at latest.]***
  - A disposition will be done/created to address all comments that were submitted.
  - What is needed by tomorrow for the privacy section?
    - Section 7 in the frameworks document (approx. 2 pages) by tomorrow. The high-level document.
    - Small amount of material, but some updates on what we plan to do in the next draft of the NISTIR document
  - Who will the audience for the frameworks and NISTIR documents be? The world.
- **NIST Smart Group working groups December 7 & 8 meetings:**
  - Tanya will route the dial-in numbers to the privacy group for the meeting next week. ***[Tanya, have you sent these? I have not received any since our meeting.]***
  - At meeting will plug all the comments within a template of sorts to make them more organized.
  - Brent: For face-to-face discussion an XML expert, an OASIS co-chair, will likely be at the meeting next week.
- **Privacy Impacts & Risks Matrix:**
  - Jennifer from UC Berkeley: Who may be viewing the information from the smart grid and smart meters? Another thing changing is how many people

are interested in and have access to this data. Data is living outside of the utilities. Accessibility issues should be included within the document and focus and related risks.

- Add a column and/or information to the matrix to show the entities and types of audiences that have access to the information.
- Reminders from Tanya:
  - NIST is interested in documenting for the NISTIR is the information collected from the smart grid beyond what was previously available.
  - Need to put into the discussions how the smart grid makes this issue different than the "old" way. Add to the discussions to make them describe these aspects more than is there currently.
- Lillie from EPIC: looking at digitized data; it is more usable or available than on-property data. Whether we're talking about machine data/language, or post-compiling or readable information. Opportunity to create a unique language for smart grid data?
- Discussion of the work of OASIS and of the other NIST smart grid groups and how they are addressing these issues. See their documents on the twiki. One of the intents of the NIST Smart Grid groups is for ensuring interoperability. It is being built into the design. Creating the new language is part of creating the smart grid. Other groups are working on the interoperability issues. OASIS is working on interoperability languages and are also addressing privacy issues. Need to roll out of existing standards. XML markup can make datasets searchable; it makes data available and creates a privacy concern. Encryption becomes more important. Encryption for every device will be important. Bottom Up Group's document on twiki discusses the encryption issues
- Rebecca: Many applications are being created to use a wide range of the types of data being collected, generated and used within the smart grid; what are those vendors doing with all that data? Incorporate these into the identified issues.
- Klaus: Collecting data on an ongoing basis from meters is much different than making a choice to initiate a payment transaction with a credit card. This is another difference with the smart grid than any previous type of situation.
- Hovanes: Heads vendor company creating home automation software. Many applications are being created that only communicate from the specific devices. Many applications vendors are interested in collecting from the smart grid, e.g., utilities, the meters, and important to know that most applications work directly with the home appliances. Usage data is coming directly from smart appliances themselves that do not pass through the smart meters, but will become part of the smart grid. E.g., data about turning on particular appliances at particular times. In future some smart appliances vendors may have a central server to control appliances in many different homes. Simply don't know yet what will happen. There needs to be more emphasis in the report and consideration about what will happen within the home that is not coming from the meter but is going to be fed into the smart grid.
- NISTIR privacy section should be trying to look ahead at what is practical and feasible. Looking at small things now, but it may really expand greatly.

- Dave Lewis in Ontario with a power company: Add another column for how the risk/impact is different from the "old" way of doing power management.
- Jay Stanley from ACLU: Establish standards now that will allow individuals will have control over their personal data.
- **Smart Grid Privacy Standards Best Practices**
  - Tanya: Our group, and NIST, cannot create privacy "standards" as part of our work. There is a very specific process that NIST has for creating "standards" and what we are doing in our group does not fit that process. Don't call the proposed privacy standards, "standards."
  - What's a better term? "Best Practices" may be a better term. Any other term better?
- **NIST Smart Grid Privacy Framework Update**
  - Who's working on the updates for tomorrow? Volunteers to work as a small group on the updates and then send to the entire group include: Rebecca, Lillie, Klaus, Hovanes, and Chris V.
  - ***NOTE: The small group made updates at the same time as many other suggestions were coming in to the full group from others. Tanya is working to coordinate and get all the suggestions addressed within the framework that is now required by Tuesday, December 8 at the latest (pushed back from Friday December 4).***
- **NIST Smart Group working groups meeting**
  - Let Tanya know if you are planning to attend the onsite meeting on Monday (12/7) and Tuesday.
  - There will be conference call dial-in capabilities for those who cannot be at the site but want to participate.
  - ***NOTE: We will still our regularly scheduled meeting Thursday, 12/10 at 11:00am est.***
- **Action Items**
  - Create and distribute meeting notes: Assigned - Rebecca
  - Update privacy impacts matrix and distribute to group prior to the 12/7 and 12/8 meeting: Assigned – Rebecca
  - Update and distribute proposed privacy standards best practices document to the group and post to twiki: Assigned - Rebecca
  - Send 12/7 and 12/8 meeting dial-in information to group: Assigned – Tanya (Let Tanya know if you are attending)
  - Update NIST Smart Grid privacy subgroup frameworks document: Assigned – All with coordination of final version by Tanya
  - Send updated NIST Smart Grid Framework document to the group for review: Assigned - Tanya